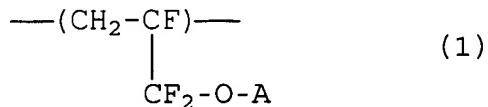
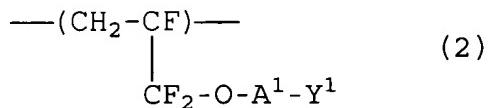


AMENDMENTS TO THE CLAIMS

1. (Original) A fluorine-containing allyl ether polymer having a number average molecular weight of 1,000 to 1,000,000 and consisting of chains of at least one repeating unit selected from the group consisting essentially of a repeating unit of the formula:



wherein A is alkyl or fluoroalkyl groups having 1 to 50 carbon atoms, alkenyl or fluoroalkenyl groups having 2 to 50 carbon atoms, alkynyl or fluoroalkynyl groups having 2 to 50 carbon atoms, alkyl or fluoroalkyl groups having an ether bond and 1 to 60 carbon atoms, alkenyl or fluoroalkenyl groups having an ether bond and 2 to 60 carbon atoms, alkynyl or fluoroalkynyl groups having an ether bond and 2 to 60 carbon atoms, aryl or fluoroaryl groups having 4 to 30 carbon atoms,
B1 CMY
 and a repeating unit of the formula:



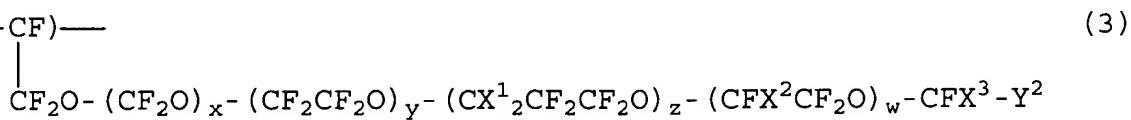
wherein A¹ is a divalent organic group having 1 to 60 carbon atoms, and Y¹ is -CH₂OH, -COOH, -COOR¹ in which R¹ is a hydrocarbon group having 1 to

20 carbon atoms, $\begin{array}{c} \text{R}^2 \\ \backslash \\ \text{-CON} \\ / \\ \text{R}^3 \end{array}$ in which R² and R³ are the same or different and a hydrogen atom or a hydrocarbon group having 1 to 20 carbon atoms, -O-CF=CF₂, or -OCO-CZ³=CZ¹Z² in which Z¹ and Z² are the same or different

and a hydrogen atom or a fluorine atom, and Z^3 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group.

2. (Presently Amended) The fluorine-containing allyl ether polymer according to claim 1—~~or 7~~, wherein A^1 in the formula (2) is a fluoroalkylene group having 1 to 60 carbon atoms or a fluoroalkylene group having an ether bond and 1 to 60 carbon atoms.

3. (Presently Amended) The fluorine-containing allyl ether polymer according to claim 1,—~~or 7~~, wherein at least one of the repeating units is a repeating unit of the formula:

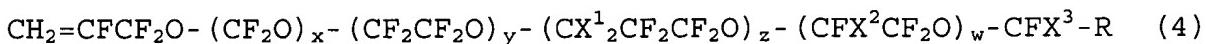


wherein X^1 is a hydrogen atom, a fluorine atom or a chlorine atom, X^2 is a hydrogen atom, a chlorine atom, a methyl group or a trifluoromethyl group, X^3 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group, x , y , z and w are the same or different and a number of 0 to 20 provided that the sum of x , y , z and w is from 1 to 20, and Y^2 is -COOH , -COOR^4 in which R^4 is a hydrocarbon group having 1

$\text{-CON} \begin{array}{c} \text{R}^5 \\ \diagdown \\ \diagup \end{array} \text{R}^6$ in which R^5 and R^6 are the same or different and a hydrogen atom or a hydrocarbon group having 1 to 20 carbon atoms, $\text{-CH}_2\text{OH}$,

carbon atoms, $-O-CF=CF_2$, or $-OCO-CZ^6=CZ^4Z^5$ in which Z^4 and Z^5 are the same or different and a hydrogen atom or a fluorine atom, and Z^6 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group.

4. (Original) A fluorine-containing allyl ether polymer represented by the formula:

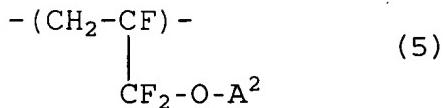


wherein X^1 is a hydrogen atom, a fluorine atom or a chlorine atom, X^2 is a hydrogen atom, a chlorine atom, a methyl group or a trifluoromethyl group, X^3 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group, x , y , z and w are the same or different and a number of 0 to 20 provided that the sum of x , y , z and w is from 1 to 20, and R is $-COOH$, $-COOR^1$ in which R^1 is a hydrocarbon group having 1 to 20 carbon atoms, $-CH_2OH$, $-CONH_2$, $-CF=CF_2$, a hydrocarbon group having 1 to 20 carbon atoms or a perfluoroalkyl group having 1 to 20 carbon atoms.

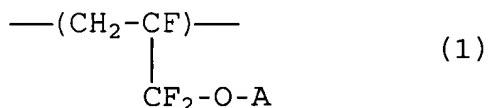
B' CNT

5. (Presently Amended) The fluorine-containing allyl ether polymer according to claim 5, 4, which has a number average molecular weight of 1,000 to 1,000,000.

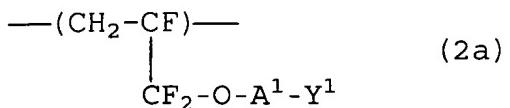
6. (Presently Amended) A fluorine-containing allyl ether copolymer consisting essentially of chains of at least two repeating units of the formula:



wherein A^2 is an organic group having 1 to 100 carbon atoms, wherein at least one repeating unit is a repeating unit of the formula:



*B1
C1W*
wherein A is alkyl or fluoroalkyl groups having 1 to 50 carbon atoms, alkenyl or fluoroalkenyl groups having 2 to 50 carbon atoms, alkynyl or fluoroalkynyl groups having 2 to 50 carbon atoms, alkyl or fluoroalkyl groups having an ether bond and 1 to 60 carbon atoms, alkenyl or fluoroalkenyl groups having an ether bond and 2 to 60 carbon atoms, alkynyl or fluoroalkynyl groups having an ether bond and 2 to 60 carbon atoms, aryl or fluoroaryl groups having 4 to 30 carbon atoms, and at least one repeating unit is a repeating unit of the formula:

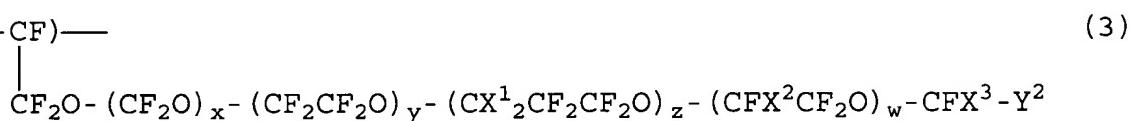


wherein A^1 is a divalent organic group having 1 to 60 carbon atoms, and Y^1 is $-\text{CH}_2\text{OH}$, $-\text{COOH}$, $-\text{COOR}^1$ in which R^1 is a hydrocarbon group having 1 to

$\begin{array}{c} \text{R}^2 \\ | \\ -\text{CON} \\ | \\ \text{R}^3 \end{array}$

20 carbon atoms, in which R^2 and R^3 are the same or different and a hydrogen atom or a hydrocarbon group having 1 to 20 carbon atoms, $-\text{O}-\text{CF}=\text{CF}_2$, $-\text{OCO}-\text{CZ}^3=\text{CZ}^1\text{Z}^2$ in which Z^1 and Z^2 are the same or different and a hydrogen atom or fluorine atom, and Z^3 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group, an epoxy group, a glycidyl group, a cyano group, a sulfonic acid group or a $-\text{SO}_3\text{R}'$ in which R' is a monovalent organic group.

7. (New) The fluorine-containing allyl ether polymer according to claim 6, wherein at least one of the repeating units is a repeating unit of the formula:



wherein X^1 is a hydrogen atom, a fluorine atom or a chlorine atom, X^2 is a hydrogen atom, a chlorine atom, a methyl group or a trifluoromethyl group, X^3 is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group, x , y , z and w are the same or different and a number of 0 to 20 provided that the sum of x , y , z and w is from 1 to 20, and Y^2 is $-\text{COOH}$, $-\text{COOR}^4$ in which R^4 is a hydrocarbon group having 1

$\begin{array}{c} \text{R}^5 \\ | \\ -\text{CON} \\ | \\ \text{R}^6 \end{array}$

to 20 carbon atoms, $-\text{CH}_2\text{OH}$, in which R^5 and R^6 are the same or different and a hydrogen atom or a hydrocarbon group having 1 to 20

carbon atoms, -O-CF=CF₂, or -OCO-CZ⁶=CZ⁴Z⁵ in which Z⁴ and Z⁵ are the same or different and a hydrogen atom or a fluorine atom, and Z⁶ is a hydrogen atom, a fluorine atom, a chlorine atom or a trifluoromethyl group.

8. (New) The fluorine-containing allyl ether polymer according to
claim 6, wherein A¹ in the formula (2a) is a fluoroalkylene group having
1 to 60 carbon atoms or a fluoroalkylene group having an ether bond and
1 to 60 carbon atoms.

*B1
Cancelled*